

OPIOID EPIDEMIC

SUSIE WIET, MD

SAFETY NET SUMMIT

OCTOBER 4, 2016

BACKGROUND AND DISCLOSURES

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Disclaimers

I have no affiliations with any financially-interested company.

I have no known royalty, stock or financial interest in any industry-sponsored company.

I do not serve any position in any financially-interested company.



OBJECTIVES

Learn about the history of the opioid epidemic

2

Know the current trends contributing to the opioid epidemic

3

Understand risks of psychiatric symptoms that contribute to opioid misuse and dependence

HISTORY OF THE OPIOID EPIDEMIC

Joint Commission first established standards for pain assessment and treatment in 2001

widespread problem of under-treatment of pain

JC requires policies regarding pain assessment and treatment

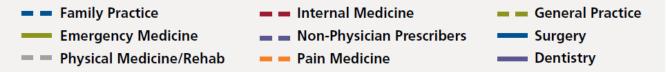
conduct educational efforts to ensure compliance

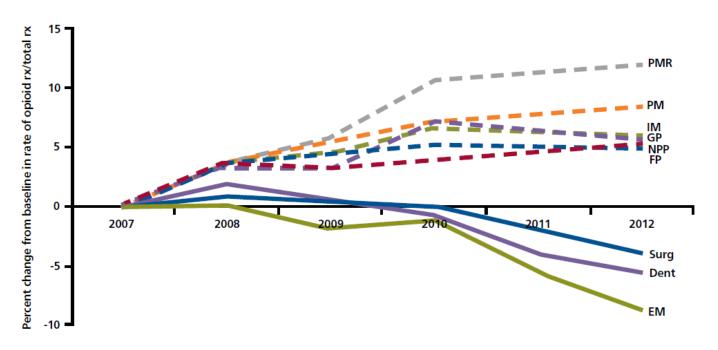
JC does not require the use of drugs to manage pain

standards do not specify which drugs to be prescribed

HISTORY OF THE OPIOID EPIDEMIC

Rx Opioid Prescribing by Medical Specialty, US, 2007-2012





American Journal of Preventive Medicine. Trends in Opioid Analgesic-Prescribing Rates by Specialty, U.S., 2007-2012. Sept. 2015; 49(3):409-13.

200,000,000 prescritions in 2013 (40 mil in 1993)

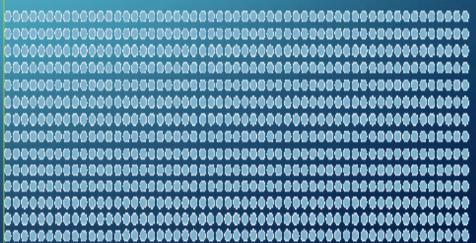






nonmedical







Commonly Abused Medications

Opioids

Derived from the opium poppy (or synthetic versions of it) and used for pain relief.

Examples include hydrocodone (Vicodin®), oxycodone (OxyContin®, Percocet®), fentanyl (Duragesic®, Fentora®), methadone, and codeine.

Benzodiazepines

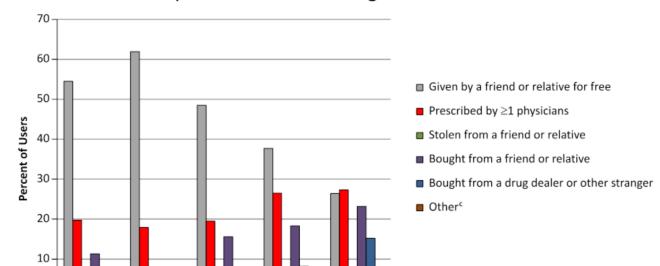
Central nervous system depressants used as sedatives, to induce sleep, prevent seizures, and relieve anxiety. Examples include alprazolam (Xanax®), diazepam (Valium®), and lorazepam (Ativan®).

Amphetamine-like drugs

Central nervous system stimulants used to treat attention deficit hyperactivity disorder (ADHD). Examples include dextroamphetamine/amphetamine (Adderall®, Adderall XR®), and methylphenidate (Ritalin®, Concerta®).



Sources of Prescription Painkillers Among Past-Year Non-Medical Usersa



Number of Days of Past-Year Non-Medical Use

- Obtained from the US National Survey on Drug Use and Health, 2008 through 2011.5
- b Estimate is statistically significantly different from that for highest-frequency users (200-365 days) (P<.05).
- ^c Includes written fake prescriptions and those opioids stolen from a physician's office, clinic, hospital, or pharmacy; purchases on the Internet; and obtained some other way.

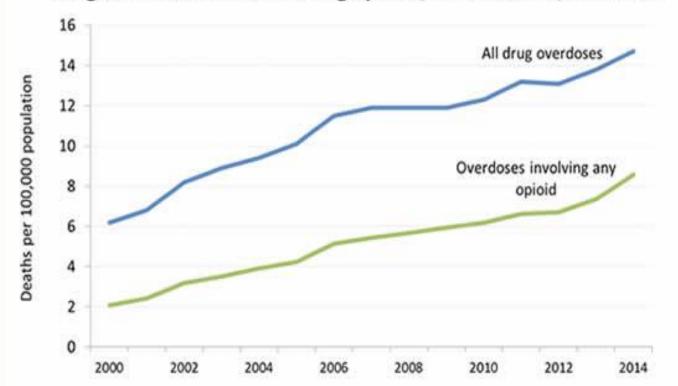
SOURCE: Jones C, Paulozzi L, Mack K. Sources of prescription opioid pain relievers by frequency of past-year nonmedical use: United States, 2008–2011. JAMA Int Med 2014; 174(5):802-803.

More than
3 out of 5 drug
overdose
deaths involve
an opioid

drug overdose are up among both men and women, all races, and adults of nearly all ages

Opioid overdoses driving increase in drug overdoses overall

Age-adjusted rate of drug overdose deaths and drug overdose deaths involving opioids, United States, 2000-2014



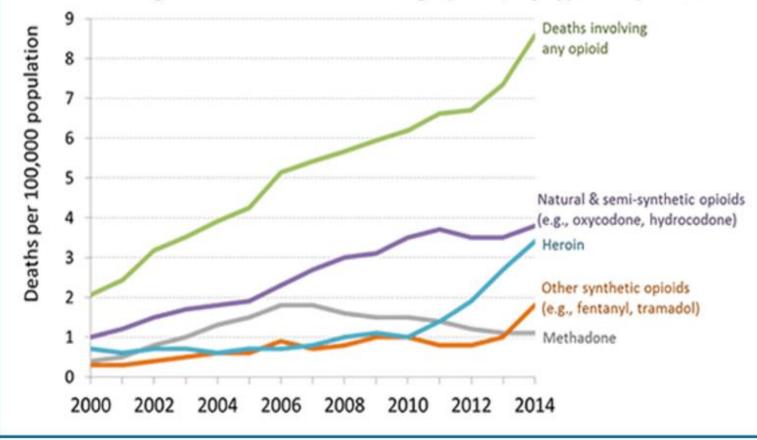
SOURCE: Centers for Disease Control and Prevention. Increases in Drug and Opioid Overdose Deaths – United States, 2000 to 2014. MMWR 2015.

www.cdc.gov/drugoverdose



Opioid overdoses driving increase in drug overdoses overall





SOURCE: Centers for Disease Control and

Prevention. Increases in Drug and

Opioid Overdose Deaths – United States, 2000 to 2014.

MMWR 2015.

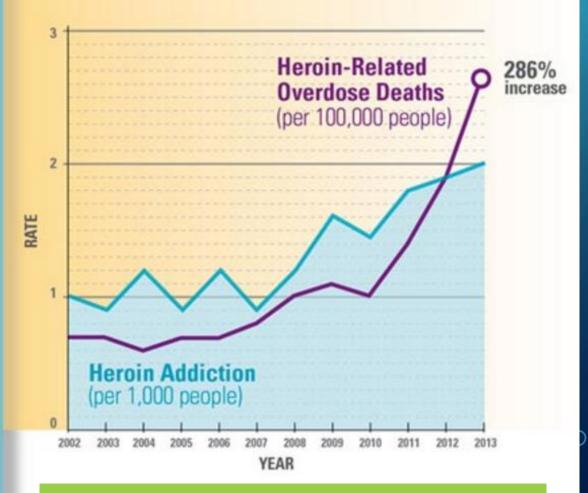
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Heroin Use Has INCREASED Among Most Demographic Groups

	2002-2004*	2011-2013*	% CHANGE		
SEX					
Male	2.4	3.6	50%		
Female	8.0	1.6	100%		
AGE, YEARS					
12-17	1.8	1.6			
18-25	3.5	7.3	109%		
26 or older	1.2	1.9	58%		
RACE/ETHNICITY					
Non-Hispanic white	1.4	3	114%		
Other	2	1.7			
ANNUAL HOUSEHOLD	NNUAL HOUSEHOLD INCOME				
Less than \$20,000	3.4	5.5	62%		
\$20,000-\$49,999	1.3	2.3	77%		
\$50,000 or more	1	1.6	60%		
HEALTH INSURANCE C					
None	4.2	6.7	60%		
Medicaid	4.3	4.7			
Private or other	8.0	1.3	63%		

Heroin Addiction and Overdose Deaths are Climbing



2014: **fentanyl-related** unintentional overdose deaths, almost a 500% increase

Table 1. Characteristics of the Sample of Veterans Health Administration Patients Receiving Opioid Therapy

'		No. (%	%)		
	Characteristic	Opioid Overdose Decedents (n = 750)	All Others (n = 154 684)	<i>P</i> Value	
لم	Male sex	700 (93.3)	144304 (93.3)	.96	
)	Age, y 18-29	31 (4.1)	3995 (2.6)		
	30-39	60 (8.0)	8407 (5.4)		
	40-49	313 (41.7)	23 888 (15.4)	<.001	
	50-59	297 (39.6)	50 216 (32.5)		
	60-69	38 (5.1)	29 985 (19.4)		
	≥70	11 (1.5)	38 183 (24.7)		
	Race Black	52 (6.9)	25 409 (16.4)		
	White	625 (83.3)	110 965 (71.7)	<.001	
	Other/missing	73 (9.7)	18310 (11.8)		
	Hispanic ethnicity	23 (3.1)	6342 (4.1)	.15	
	Pain-related diagnoses ^a Cancer	91 (12.1)	36 712 (23.7)	<.001	
)	Chronic bodily pains	588 (78.4)	107 158 (69.3)	<.001	
	Headache	90 (12.0)	10 208 (6.6)	<.001	
	Neuropathy	32 (4.3)	8339 (5.4)	.17	
	Injuries and acute pain	222 (29.6)	29522 (19.1)	<.001	
	Other diagnoses ^a				
	Substance use disorders	296 (39.5)	15 195 (9.8)	<.001	
	Other psychiatric disorders	498 (66.4)	51 929 (33.6)	<.001	
	COPD, CVD, and sleep apnea	467 (62.3)	123 025 (79.5)	<.001	

Abbreviations: COPD, chronic obstructive pulmonary disease; CVD, cardiovascular disease.

U.S. Vietnam War Fatal Casualties vs. Fatal Opioid Overdoses

174,713

Fatal Opioid* Overdoses 1999-2011

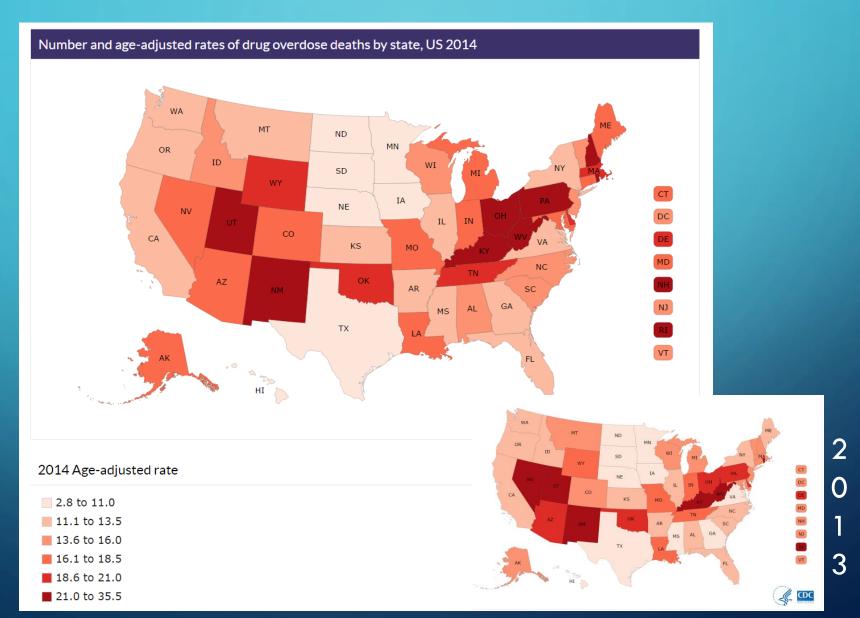
58,220

U.S. Military in Vietnam 1956-1976

Citation for Vietnam War Deaths: U.S. National Archives. Statistical Information about Fatal Casualties of the Vietnam War. As of April 29, 2008.

^a All conditions were measured in the year up to and including the first opioid fill during the observation period and are not mutually exclusive.

^{*}Includes prescription analgesics and heroin. Source: National Center for Health Statistics/CDC, National Vital Statistics Report, Final death data for each calendar year (June 2014)



PSYCHIATRIC SYMPTOMS: OPIOID MISUSE AND DEPENDENCE

Loss of empathy

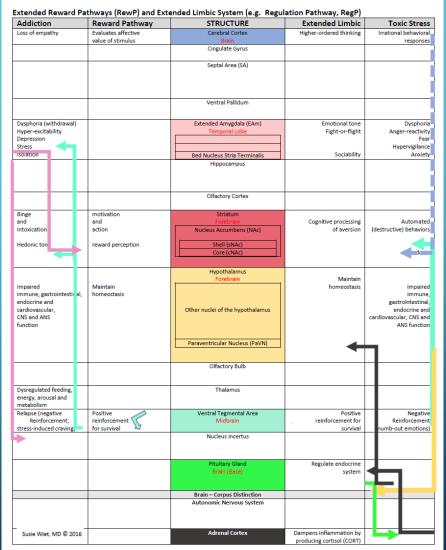
Dysphoria (withdrawal)
Hyper-excitability, Stress
Depression, Isolation

Binge and intoxication Hedonic tone

Impaired immune, GI, CV ANS, endocrine

Relapse (negative reinforcement) Stress-induced craving

Hyper or hypocortisolemia



Irrational behavioral responses

Dysphoria, anger-reactivity, fear Hypervigilance, anxiety

Automated, destructive behaviors

Impaired immune, GI, CV, ANS, endocrine

Negative reinforcement,
Numb-out emotions

Hyper or hypocortisolemia

"...physicians played a key role in starting the opioid epidemic...(we) now must do (our) part to end it...

...We have taken ownership of that...and being part of the solution."

- Andrew Gurman, MD

AMA president June 2016

Modern Healthcare



